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(54) Title: SHORT INTERFERING RNA AND MICRO-RNA COMPOUNDS AND METHODS OF DESIGNING, MAKING
AND USING THE SAME

(57) Abstract: Methods of identifying, designing and synthesizing uniquely targeting siRNA nucleotide sequences for a target mRNA sequence of a target species are disclosed. Methods of identifying, designing and synthesizing miRNA nucleotide sequences that does not function as a siRNA nucleotide sequence for mRNA of a target species are disclosed. Method of inhibiting expression of a target mRNA molecule are disclosed sequence. siRNA molecules including uniquely targeting siRNA molecules and RISCs comprising the same are disclosed. miRNA molecules that do not function as siRNA nucleotide sequences for mRNA of a target species are disclosed.

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